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	Application No.	Applicant(s)		
At a CAllamakilia	09/773,750	FUJIWARA ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Ling-Siu Choi	1713		
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t	oplication. If not included n will be mailed in due course. THIS		
1. 🖾 This communication is responsive to the Amendment afer to	Final filed 08/19/2004.			
2. The allowed claim(s) is/are <u>1-22</u> .				
3. \square The drawings filed on are accepted by the Examiner	;			
 4. Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 				
2. Certified copies of the priority documents have been received in Application No				
3. Copies of the certified copies of the priority documents have been received in this national stage application from the				
International Bureau (PCT Rule 17.2(a)).		11ational 3.235 app	•	
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements		
5. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give				
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.				
(a) ☐ including changes required by the Notice of Draftspers		-948) attached		
1) hereto or 2) to Paper No./Mail Date				
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of				
Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.	84(c)) should be written on the drawi	ngs in the front (not the back) of		
each sheet. Replacement sheet(s) should be labeled as such in th				
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.				
Attachment(s)				
1. Notice of References Cited (PTO-892)	5. Notice of Informal F	Patent Application (PTO-152)		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Summary			
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	Paper No./Mail Da 8), 7. ☐ Examiner's Amendr			
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance		
of Biological Material	9. 🗌 Other			

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DETAILED ACTION

1. This Office Action is in response to the Amendment after Final filed August 19, 2004. Claims 23-24 were canceled and claims 1-22 are now pending.

Allowable Subject Matter

- 2. Claims 1-22 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The present claims are allowable over the closest reference: Satoh et al. (US 6,187,883 B1) and Sato et al. (JP 10-212319-A).

The present invention relates to a process to prepare a solid catalyst component (1) for α olefin polymerization, the process comprising the steps of

1	Reduced $R^{2}[(O-Ti(X^{2})_{2}]_{a}X^{2}$ (a = 1 to 20)	with an organomagnesium compound in the presence of an organosilicon compound (Si-O) to obtain a solid product
2	contacting the solid product with	halogeno compound of the Group 14 element
		at least one [electron donor compound (E1) and organic acid halide]
		compound having Ti-halogen bond to obtain the solid catalyst component

(summary of claim 1)

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Satoh et al. disclose a catalyst comprising the catalyst component, an organoaluminum compound, and an electron-donor compound, wherein the catalyst component is obtained by a process comprising reducing a titanium compound with an organomagnesium compound in the presence of an organosilicon compound and an ester to obtain a solid product, then treating the solid product with (a) a mixture of titanium tetrachloride and an ester, (b) an organic acid halide, and (c) a mixture of titanium tetrachloride and an ether optionally containing an ester, a halogenated hydrocarbon such as dichloroethane or trichloroethylene being preferably used as a solvent for mixtures (a) or (b) (abstract; col. 8, lines 54-67; claim 1 and 7). However, Satoh et al. do not teach or fairly suggest a process comprising a step of using a halogeno compound of a Group 14 element selected from the group consisting of Si, Ge, Sn, and Pb.

Sato et al. disclose a catalyst comprising (A) a catalyst component, (B) an organoaluminum, and (c) an electron donor, wherein the catalyst component is obtained by the steps of (a) reducing an titanium compound of Ti(OR¹)_aX_{4-a} by an organic magnesium compound in the presence of an organosilicon compound having Si-O bond and an ester to obtain a solid product, (b) treating the solid product with a mixture of an ether compound and titanium tetrachloride, then an organic acid halide compound, and finally a mixture of an ether, titanium tetrachloride, and an ether compound (claim 1). However, Sato et al. do not teach or fairly suggest a process comprising a step of using a halogeno compound of a Group 14 element selected from the group consisting of Si, Ge, Sn, and Pb.

In light of the above discussion, it is evident as to why the present claims are patentable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the

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payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

David Wu, can be reach on 571-272-1114.

September 15, 2004

LING-SUI CHOI PRIMARY EXAMINER

Ling-Siu Choi, Ph.D. Primary Examiner

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